

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) An impeller (42) of a centrifugal fan ~~that sucks in gas from a rotating shaft (41a) direction and blows out the gas in a direction intersecting the rotating shaft, the impeller~~ comprising:

a main plate (43) ~~that~~ configured to rotates around ~~the~~ a rotating shaft;

a plurality of hollow blades (44) comprising first surface portions (51) that are annularly disposed around the rotating shaft, each of the hollow blades including a first surface portion ~~and~~ integrally molded with or fixed to the main plate and a second surface portions (61) that are attached to the first surface portions and configure, the first and second surface portions forming a hollow space (S) between themselves and the first surface portions; and

a side plate (45) ~~that is disposed such that it sandwiches the plural hollow blades between itself and the main plate in the rotating shaft direction and~~ integrally molded with or fixed to the ~~plural~~ first surface portions,

the hollow blades being disposed between the main plate and the side plate,

the main plate, the hollow blades and the side plate being configured to take in a gas from a rotating shaft direction and blow out the gas in a direction intersecting the rotating shaft, and

wherein each of the second surface portions are disposed such that they configure forming at least part of a negative-pressure surfaces (44f) of the hollow blades.

2. (Currently Amended) An impeller (42) of a centrifugal fan ~~that sucks in gas from a rotating shaft (41a) direction and blows out the gas in a direction intersecting the rotating shaft, the impeller~~ comprising:

a main plate (43) ~~that~~ configured to rotate around the a rotating shaft;

a plurality of hollow blades (44) comprising first surface portions (51) that are annularly disposed around the rotating shaft, and each of the hollow blades including a first surface portion integrally molded with or fixed to the main plate and a second surface portions (61) that are attached to the first surface portions, the first and second surface portions forming and configure a hollow space (S) between themselves and the first surface portions; and

~~a side plate (45) that is disposed so as to sandwich the plural hollow blades between itself and the main plate in the rotating shaft direction and integrally molded with or fixed to the plural first surface portions, wherein~~

the hollow blades being disposed between the main plate and the side plate,

the main plate, the hollow blades and the side plate being configured to take in a gas from a rotating shaft direction and blow out the gas in a direction intersecting the rotating shaft, and

~~the second surface portions are disposed such that even if~~ being configured to remain attached to the first surface portion while a centrifugal force resulting from the rotation of the main plate acts thereon, the state where they are attached to the first surface portions is maintained.

3. (Currently Amended) The impeller ~~(42) of the centrifugal fan of claim 1 or 2,~~
wherein

the second surface portions ~~(61) are~~ is attached to the first surface portions ~~(51) by~~
~~being fitted~~ inserting a portion of the second surface portion into the first surface portions.

4. (Currently Amended) The impeller ~~(42) of the centrifugal fan of any of claims~~
~~1 to 3,~~ wherein

the ~~plural~~ first surface portions ~~(51)~~ and the side plate ~~(45)~~ are separately molded.

5. (Currently Amended) The impeller ~~(42) of the centrifugal fan of claim 4,~~
wherein

the ~~plural~~ first surface portions ~~(51)~~ are fixed to the side plate ~~(45)~~ by laser welding.

6. (Currently Amended) The impeller ~~(42) of the centrifugal fan of claim 5,~~
wherein

~~the material configuring~~ the side plate ~~(45) has~~ includes a material with a higher light
transmittance than ~~that of the~~ a material configuring of the first surface portions ~~(51)~~.

7. (Currently Amended) The impeller ~~(42) of the centrifugal fan of any of claims~~
~~4 to 6,~~ further comprising

a side plate-side guide mechanism for positioning the hollow blades ~~(44)~~ in the side
plate ~~(45)~~.

8. (Currently Amended) The impeller (42) ~~of the centrifugal fan of any~~ of claims 1 ~~to 7~~, wherein

the ~~plural~~ first surface portions (51) and the main plate (43) are separately molded.

9. (Currently Amended) The impeller (42) ~~of the centrifugal fan~~ of claim 8, wherein

the ~~plural~~ first surface portions (51) are fixed to the main plate (43) by laser welding.

10. (Currently Amended) The impeller (42) ~~of the centrifugal fan~~ of claim 9, wherein

~~the material configuring the main plate (43) has~~ includes a material with a higher light transmittance than ~~that of the~~ a material configuring of the first surface portions (51).

11. (Currently Amended) The impeller (42) ~~of the centrifugal fan of any~~ of claims 8 ~~to 10~~, further comprising

a main plate-side guide mechanism for positioning the hollow blades (44) in the main plate (43).

12. (Currently Amended) The impeller (42) ~~of the centrifugal fan of any~~ of claims 1 ~~to 11~~, wherein

the hollow blades (44) include a blade shape retaining mechanism for preventing the second surface portions (61) from being deformed toward ~~their~~ outer peripheral sides of the second surface portions by a centrifugal force.

13. (Currently Amended) The impeller ~~(42) of the centrifugal fan of any~~ of claims 1 ~~to 12~~, wherein

the second surface portions ~~(61)~~ include plural concavo-convexities ~~(61a)~~ formed in ~~their surfaces of the second surface portions~~.

14. (Currently Amended) A centrifugal fan ~~(4)~~ comprising:
the impeller ~~(42) of any~~ of claims 1 ~~to 13~~; and
a drive mechanism ~~(41) that causes~~ configured to rotate the main plate ~~to rotate~~.

15. (New) The impeller of claim 2, wherein
the first surface portions and the side plate are separately molded.

16. (New) The impeller of claim 15, wherein
the first surface portions are fixed to the side plate by laser welding.

17. (New) The impeller of claim 16, wherein
the side plate includes a material with a higher light transmittance than a material of
the first surface portions.

18. (New) The impeller of claim 2, wherein
the first surface portions and the main plate are separately molded.

19. (New) The impeller of claim 18, wherein
the first surface portions are fixed to the main plate by laser welding.
20. (New) The impeller of claim 19, wherein
the main plate includes a material with a higher light transmittance than a
material of the first surface portions.